

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDFO4LEDXT-20LXXKXWE1-RD4FMWSO-FACY4.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

 [TESTLAB] Photopia 2015.1.1 see: www.ltiopics.com/ies

[ISSUEDATE]

[TESTDATE] Fri Jun 10 2016

[UPDATE] Tue Jan 10 2017

[TEST] SP-00480_16_M-20L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-20L-xxK-XW-E1-RD4F-MW-SO-FACY4

[LUMINAIRE] 4" aperture recessed LED downlight w/ 4"H Frosted Clear Acrylic Cylinder Element

[OTHER] Xtra Wide Beam upper reflector, regressed Solite lens, Matte White lower cone

[LAMP] N/A, Min. 83 CRI

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available color temperatures

[OTHER] This report prepared by Spectrum Lighting, scaled from 40L report

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1216
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.60
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 ft (Diameter)
Luminous Height	0.33 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10309	10487	10585
55	8168	8131	8193
65	6270	6351	6387
75	4890	4991	4986
85	3763	3818	3783

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1813.902	1813.902	1813.902	1813.902	1813.902
5	1775.542	1740.143	1740.424	1762.196	1746.528
10	1613.250	1622.004	1607.504	1618.679	1607.614
15	1175.675	1168.579	1166.620	1175.421	1167.317
20	738.610	747.285	742.381	744.319	745.763
25	422.987	422.322	417.865	423.590	417.730
30	265.511	263.324	268.057	266.337	271.158
35	201.145	198.246	196.922	196.875	195.784
40	160.463	161.326	160.816	159.440	159.476
45	134.280	136.706	136.603	137.122	137.875
50	120.820	121.620	121.314	120.088	119.490
55	107.007	105.334	106.518	106.736	107.329
60	92.694	93.053	93.510	92.996	92.539
65	80.117	81.577	81.151	80.715	81.613
70	69.655	69.691	69.047	69.862	69.701
75	59.010	60.340	60.220	59.670	60.168
80	51.067	49.633	50.017	49.981	49.576
85	41.352	41.518	41.950	41.337	41.565
90	35.321	37.040	37.420	36.635	36.547

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Zone	Lumens	%Lamp	%Fixt
0-20	486.02	N.A.	40.00
0-30	695.22	N.A.	57.20
0-40	823.30	N.A.	67.70
0-60	1025.83	N.A.	84.40
0-80	1169.58	N.A.	96.20
0-90	1215.9	N.A.	100.00
10-90	1052.89	N.A.	86.60
20-40	337.28	N.A.	27.70
20-50	444.30	N.A.	36.50
40-70	283.00	N.A.	23.30
60-80	143.75	N.A.	11.80
70-80	63.27	N.A.	5.20
80-90	46.32	N.A.	3.80
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1215.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	163.02
10-20	323.00
20-30	209.20
30-40	128.08
40-50	107.01
50-60	95.52
60-70	80.47
70-80	63.27
80-90	46.32
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

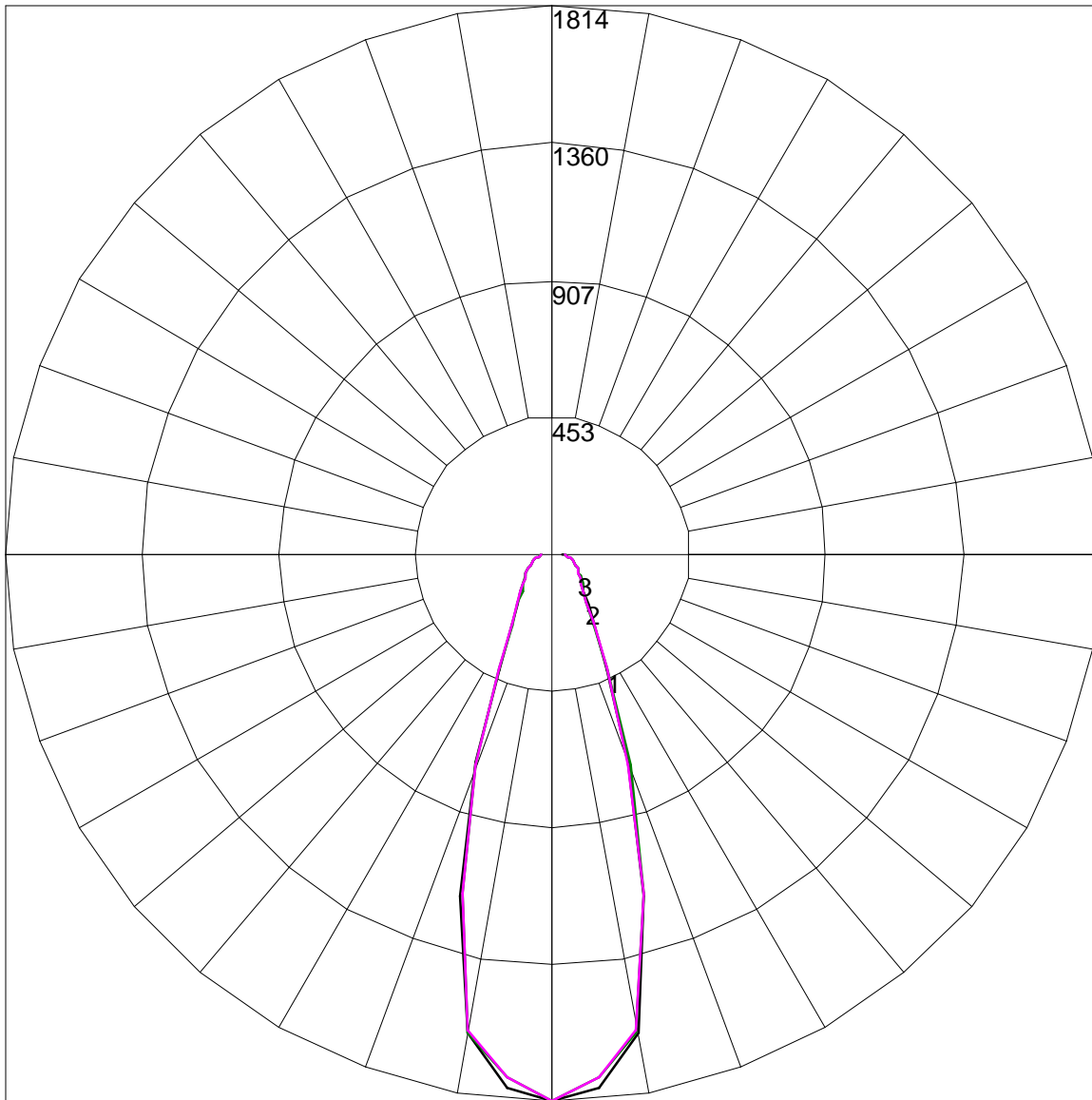
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	66	64
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48
9	70	59	52	48	69	58	52	48	57	52	48	57	51	48	56	51	47	46
10	67	56	50	45	66	56	50	45	55	49	45	54	49	45	53	48	45	44

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POLAR GRAPH



Maximum Candela = 1813.902 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Vertical Plane Through Horizontal Angles (45 - 225)